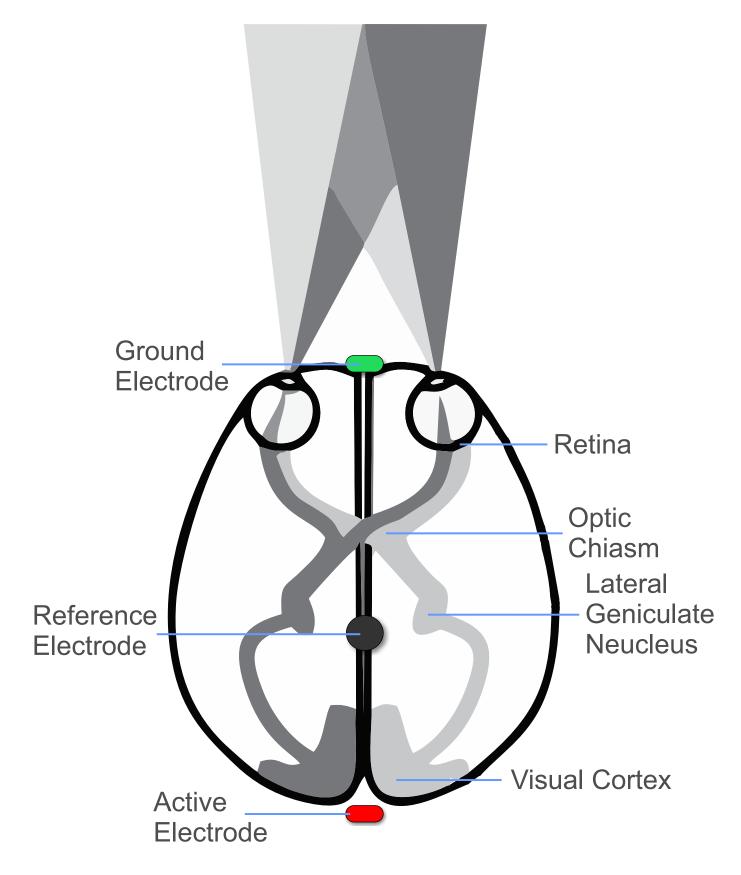
Fourier Analytics - the Secret Sauce behind EvokeDx

10 Hz
icVEP check stimulus frequency
from OLED display



icVEP isolated-check stimulus pattern contrast varies sinusoidally at **10 Hz**

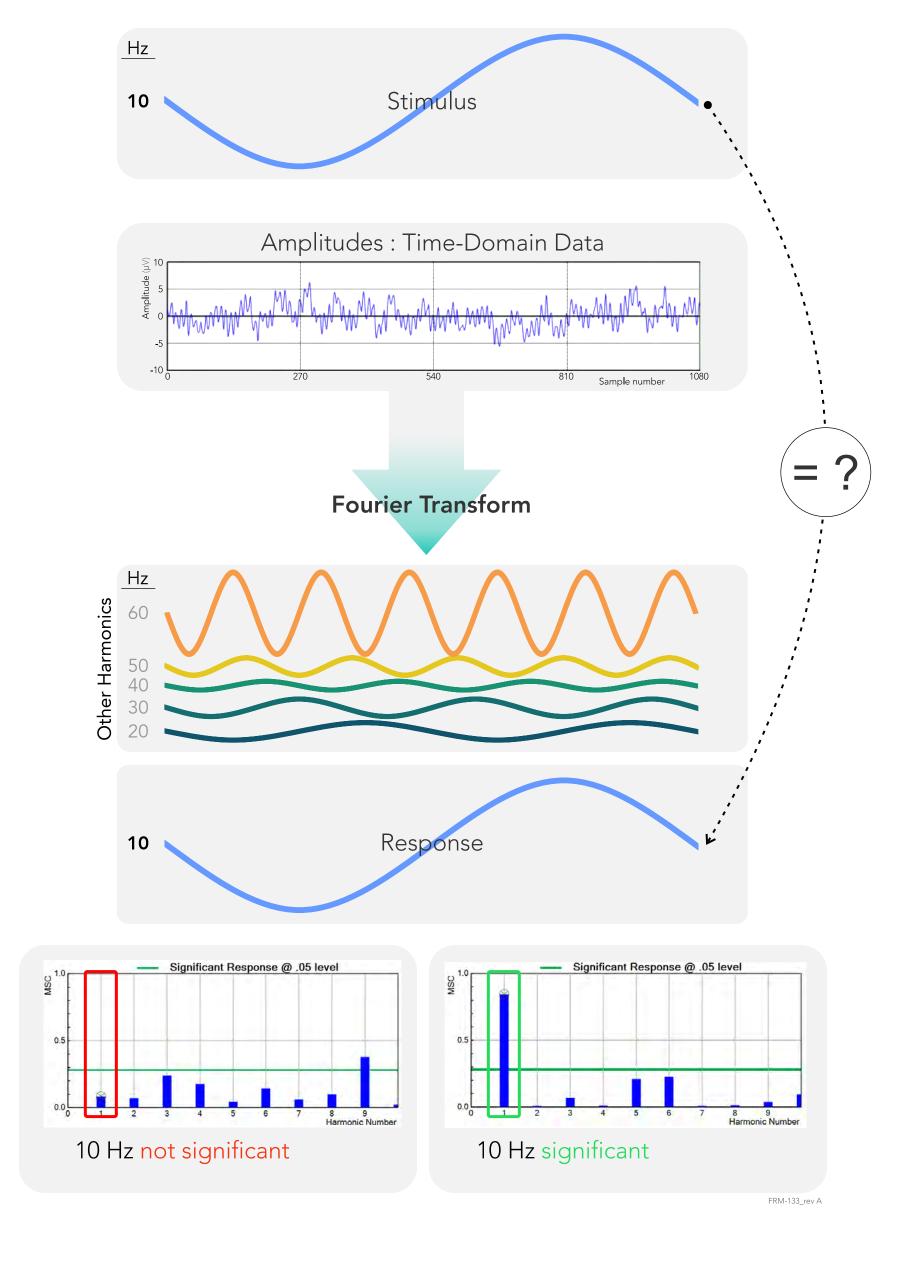
Time-domain data collected are a complex waveform which includes a spectrum of background brain activity ("noise") which obscures the 10 Hz response

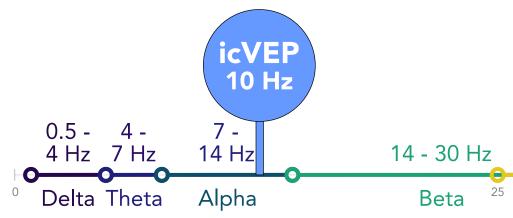
Recorded time-domain data is converted to the frequency-domain using a **Fourier transform** to deconstruct the complex waveform into its frequency components

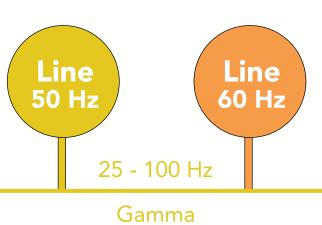
From the spectrum of frequency components revealed, irrelevant frequencies are filtered out.

The 10 Hz "Response" corresponding to the 10 Hz stimulus is isolated.

The 10 Hz response is tested statistically with sophisticated techniques, including "Coherence" (MSC) to assess if the response is significant (unaffected), how significant, or not significant (loss of function)







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